

WHAT IS CLAIMED IS:

1. A printed circuit board unit with a cooling device, comprising:

a printed circuit board;

a ventilation fan rotating around a rotation axis intersecting the printed circuit board;

a housing wall standing from a surface of the printed circuit board at a periphery of the ventilation fan; and

an outlet defined in the housing wall.

2. The printed circuit board unit with the cooling device according to claim 1, further comprising an inlet defined in the printed circuit board inside the housing wall.

3. The printed circuit board unit with the cooling device according to claim 2, further comprising:

an electronic component mounted on the printed circuit board; and

an electrically conductive wiring pattern extending over the surface of the printed circuit board inside the housing wall and connected to the electronic component.

4. The printed circuit board unit with the cooling device according to claim 3, further comprising a radiation fin connected to the electrically conductive wiring pattern.

5. The printed circuit board unit with the cooling device according to claim 4, further comprising an electronic component mounted on the printed circuit board inside the housing wall.

6. The printed circuit board unit with the cooling device according to claim 1, further comprising:

a ceiling wall connected to an upper end of the housing wall and extending along a datum plane parallel to the surface of the printed circuit board; and

an inlet defined in the ceiling wall.

7. The printed circuit board unit with the cooling device according to claim 6, further comprising an inlet defined in the printed circuit board inside the housing wall.

8. The printed circuit board unit with the cooling device according to claim 7, further comprising:

an electronic component mounted on the printed circuit board; and

an electrically conductive wiring pattern extending over the surface of the printed circuit board inside the housing wall and connected to the electronic component.

9. The printed circuit board unit with the cooling device according to claim 8, further comprising a radiation fin connected to the electrically conductive wiring pattern.

10. The printed circuit board unit with the cooling device according to claim 9, further comprising an electronic component mounted on the printed circuit board inside the housing wall.

11. The printed circuit board unit with the cooling device according to claim 1, further comprising an electronic component mounted on the printed circuit board inside the

housing wall.

8. An electronic apparatus comprising:

a printed circuit board;

an electronic component mounted on the printed circuit board;

a ventilation fan rotating around a rotation axis intersecting the printed circuit board;

a housing wall standing from a surface of the printed circuit board at a periphery of the ventilation fan; and

an outlet defined in the housing wall.

12. The electronic apparatus according to claim 11, further comprising an inlet defined in the printed circuit board inside the housing wall.

13. The electronic apparatus according to claim 11, further comprising:

an electronic component mounted on the printed circuit board; and

an electrically conductive wiring pattern extending over the surface of the printed circuit board inside the housing wall and connected to the electronic component.

14. The electronic apparatus according to claim 13, further comprising a radiation fin connected to the electrically conductive wiring pattern.

15. The electronic apparatus according to claim 11, further comprising an electronic component mounted on the printed circuit board inside the housing wall.

16. The electronic apparatus according to claim 11,
further comprising:

a ceiling wall connected to an upper end of the housing
wall and extending along a datum plane parallel to the surface
of the printed circuit board; and

an inlet defined in the ceiling wall.